REMARKS

INTRODUCTION

In accordance with the foregoing, no claims have been amended. Claims 8 and 9 have been cancelled. Claims 1-7 are pending and under consideration.

CLAIM REJECTIONS

Claims 1-9 were rejected under 35 USC 102(e) as being anticipated by Ando et al. (US 6,782,189) (hereinafter "Ando").

Ando discusses a recording medium of stream data, and recording method and playback method of the same. In Ando, multiplexed information demultiplexer 425 classifies various packets (video packets, audio packets, and sub-picture packets) contained in the stream data sent from selector 423 on internal memory 426 on the basis of their IDs. Then, demultiplexer 425 distributes the classified packets to corresponding decoders (video decoder 428, sub-picture decoder 429, and audio decoder 430). Ando, 28:57-28:63 and Figure 19.

Further in Ando, video decoder 428 decodes (MPEG-encoded) video packets sent from multiplexed information demultiplexer 425 to generate moving picture data. Video decoder 428 incorporates representative image (thumbnail) generator 439 to provide a function of generating a reduced-scale picture (thumbnail picture) that represents the recorded contents from I-picture in MPEG video data. Moving picture data (and/or the representative image generated by generator 439) decoded by video decoder 428, sub-picture data (information of superimposed dialogs, menus, and the like) decoded by sub-picture decoder 429, and audio data decoded by audio decoder 430 are sent to video mixing unit 405 via video processor 438. Video mixing unit 405 generates a digital video by superposing the superimposed dialogs and the like on the moving picture using frame memory 406. This digital video is converted into an analog video via D/A converter 436, and the analog video is sent to monitor TV 437. Ando, 28:64-29:13 and Figure 19.

Still further in Ando, the aforementioned instructions and the like from STB controller 404 (operation control of the internal components of STB unit 416) are executed by a control program stored in program memory 404a. In this case, work memory 407 is used as needed in the control process of STB controller 404. Ando 29:24-29:28 and Figure 19.

Claims 1-4

Independent claim 1 recites: "...storing the table having the extracted information and the program data in a storage apparatus." In contrast to claim 1, Ando does not discuss storing the table. For exemplary purposes only, please note that Figure 2 of the present application includes an HDD 218. In the present application, the program packets related to the selected TV program are first stored in the RAM 214a at operation S322 using DMA and then stored in units of a disk packet in the HDD 218 by DMA operations at operation S324. Then information needed for play and trick play is included in the program table. After program packets are stored in the HDD 218, the program table is stored in the HDD 218. This feature recited in claim 1 of storing the table having the extracted information and the program data in a storage apparatus is not discussed in Ando.

In contrast to claim 1, Ando discusses multiplexed information demultiplexer 425 classifies various packets contained in the stream data sent from selector 423 on internal memory 426 on the basis of their IDs. Then in Ando, demultiplexer 425 distributes the classified packets to corresponding decoders. Then a control program stored in program memory 404a executes instructions from the STB controller 404. A work memory 407 is used as needed in the control process of STB controller 404.

In Ando, the Program Allocation Table (PAT) and the Program Map Table (PMT) are still scattered in the Transport Stream (TS), so that there is a delay in reconstructing the PAT and PMT which slows down a quick play operation such as rewind or fast forward. Storing the table having the extracted information and the program data in a storage apparatus as recited in claim 1 addresses this problem.

Claims 2-4 depend on claim 1 and are therefore believed to be allowable for at least the foregoing reasons.

Withdrawal of the foregoing rejection is requested.

Claims 5-7

Independent claim 5 recites: "...a storing apparatus which stores the program packets and the program table." In contrast to claim 5, Ando does not discuss a storing apparatus which stores the program packets and the program table. For exemplary purposes only, please note

that Figure 2 of the present application includes an HDD 218. In the present application, the program packets related to the selected TV program are first stored in the RAM 214a at operation S322 using DMA and then stored in units of a disk packet in the HDD 218 by DMA operations at operation S324. Then information needed for play and trick play is included in the program table. After program packets are stored in the HDD 218, the program table is stored in the HDD 218. The technical feature recited in claim 5 of a storing apparatus which stores the program packets and the program table is not discussed in Ando.

In contrast to claim 5, Ando discusses multiplexed information demultiplexer 425 classifies various packets contained in the stream data sent from selector 423 on internal memory 426 on the basis of their IDs. Then in Ando, demultiplexer 425 distributes the classified packets to corresponding decoders. Then a control program stored in program memory 404a executes instructions from the STB controller 404. A work memory 407 is used as needed in the control process of STB controller 404.

In Ando, the Program Allocation Table (PAT) and the Program Map Table (PMT) are still scattered in the Transport Stream (TS), so that there is a delay in reconstructing the PAT and PMT which slows down a quick play operation such as rewind or fast forward. A storing apparatus which stores the program packets and the program table as recited in claim 5 addresses this problem.

Claims 6 and 7 depend on claim 5 and are therefore believed to be allowable for at least the foregoing reasons.

Withdrawal of the foregoing rejection is requested.

Claims 8 and 9

Claims 8 and 9 have been cancelled.

CONCLUSION

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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